BY THE CONTRACTOR

DESCRIPTION

Furnish and install 12" white heat

Furnish and install 24" white heat

applied permanent preformed

applied permanent preformed

Furnish and install depressed

Furnish and install 4" concrete

pedestrian signal head section

traffic signal head section

Furnish and install 12" vehicular

Furnish and install 8" vehicular

traffic signal head section.

Furnish and install breakaway

Furnish and install ped pushbutton

and sign - R10-4(1) sign -  $9'' \times 12''$ 

- "PUSH BUTTON TO CROSS RIGGS ROAD"

pedestal pole (10').

Install conduit bend 3"

conduit – trenched

supports 4" x 4"

conduit - bored.

ground wire.

handhole.

for signal foundation

Furnish and install No. 6

AWG stranded bare copper

in existing foundation.

Remove and dispose of material and equipment per assignment

Furnish and install 3" schedule

80 rigid polyvinyl chloride

Furnish and install concrete

Furnish and install wood sign

Furnish and install 3" schedule

80 rigid polyvinyl chloride

Furnish and install electrical

Install ground mounted sign.

Furnish and install ground

Furnish and install electrical

Furnish and install electrical

Furnish and install electrical

Furnish and install electrical

Furnish and install steel span

cable - 7 conductor (No. 14

Remove and replace brick

wire, ¼ diameter.

cable - 5 conductor (No. 14

cable - 3 conductor (No. 14

cable - 2 conductor (No. 14

Install overhead sign.

 $rod -\frac{3}{4}$  x 10'.

AWG).

AWG).

AWG).

AWG).

sidewalk.

Remove existing pavement

markings - any width.

Furnish and install 12"

curb and gutter.

sidewalk.

(Black Faced)

(Black Faced)

(Black Faced)

thermoplastic pavement marking.

thermoplastic pavement marking.

Maintenance of traffic per

assignment.

Class 2 Excavation.

Test Pit Excavation

[TEM

1001

NO.

EQUIPMENT TO BE REMOVED

#### I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 212 (Riggs Road) and MD 211 (Sargent Road) in Prince George's County. Pedestrian phases across MD 212 and MD 211 shall be installed and an additional five section signal head for westbound left turns shall be added. MD 212 (Riggs Road) is assumed to run an east-west direction.

### II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 212 (Riggs Road) approaches running concurrently. The Exclusive/Permissive left turn phase for the westbound approach of MD 212 (Riggs Road) shall remain in operation. A pedestrian phase with pushbutton actuation shall be provided across the west leg of MD 212 (Riggs Road). A new pedestrian phase across MD 211 (Sargent Road) shall be on recall. The MD 211 (Sargent Road) approach shall continue to run alone.
- 2. The existing eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection.

#### III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- 2. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

1 EA

1 ÉA

1 EA

#### EQUIPMENT LIST

EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9570	Sheet aluminum signs to consist of: (ground mount)	31.5 SF

M6-2 "arrow (symbolic)" left

diagonal sign, (15" x 21") ground mounted.		
W11-2 "PEDESTRIAN CROSSING (SYMBOLIC)" sign, (30" x 30") ground mounted with hardware	2	EA

sign, (24" x 36") ground mounted

with hardware	
GUIDE SIGN	1 E
M3-3 "SOUTH"(24"X12")	
M1-5 "MD 211"(30"X24")	

	M6-1 "left arrow "(21"X15")	
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	44.5 SF
	M6-2 "arrow (symbolic)" right diagonal sign. (15" x 21")	1 EA

ground mounted.

W13-4(1) "ACROSS RAMP"

W11-2 "PEDESTRIAN CROSSING (SYMBOLIC)" sign, (30" x 30") ground mounted with hardware	1 EA
GUIDE SHIELD ASSEMBLY	1 EA

M3-4	"WEST"(30"X15")
M1 - 5	"MD 212"(48"X36")
M6 - 1	"left arrow "(30"X24")

(48"x75") pole mounted.

GUIDE SHIELD ASSEMBLY
(30"x51") pole mounted.
M3-2 "EAST"(24"X12")
M1-5 "MD 212"(30"X24")
M6-1 "right arrow "(21"X15")

# EQUIPMENT TO BE FURNISHED AND/OR INSTALLED

QUANTITY

1 EA

1 C.Y.

2 C.Y.

270 L.F.

45 L.F.

90 L.F.

20 L.F.

70 S.F.

8 EA

22 EA

3 EA

2 EA

2 EA

1 EA

1 EA

35 L.F.

2 C.Y.

75 L.F.

110 L.F.

45 L.F.

2 EA

31.5 S.F.

36 S.F.

2 EA

330 L.F.

365 L.F.

290 L.F.

215 L.F.

155 L.F.

30 S.F.

All removed signal materials are to become property of the contractor.

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Majid Shakib Assistant District Engineer - Traffic Phone: (301 513-7358

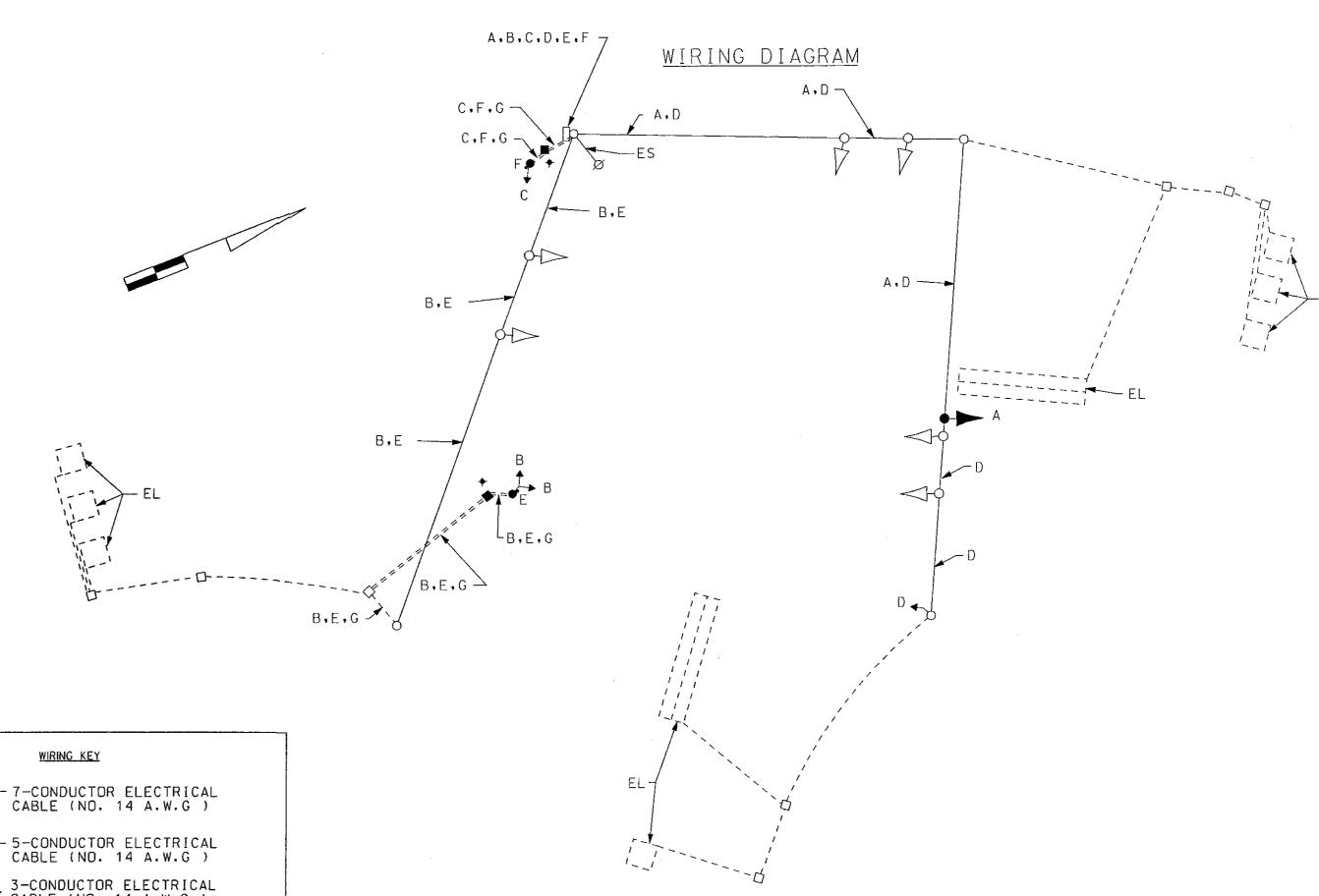
Mr. Raleigh Medley Assistant District Engineer - Maintenance Phone: (301) 513-7304

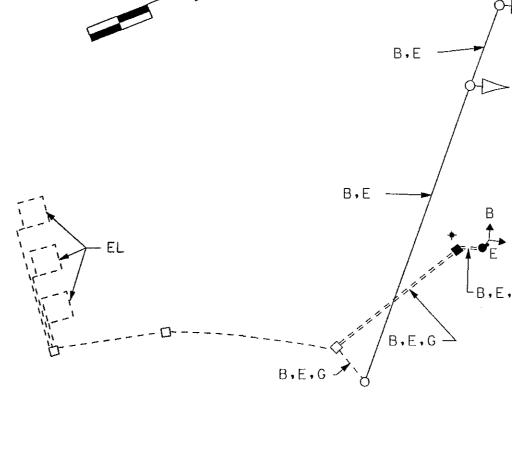
Mr. Augie Rebish Assistant District Engineer - Utility Phone: (301) 513-7350

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

1 2 3 4 5 6 7 8 9 10 11

PHASE 2 & 5	R	R	<b>4</b> -G-/G	<b>∢</b> -G-/G	G	R	R	DW	DW	DW	DW		<b>←</b>
2 & 5 CHANGE	· R	R	<b>4</b> -Y-/G	<b>◄</b> -Y -/G	G	R	R	DW	DW	DW	DW	-	T
PHASE 2 & 6.	G	G	G	G	G	R	R	WK	WK	DW	DW		<u> </u>
PED CLEAR	G	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW		4
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW	•	<b>≯</b> 
PHASE 4	R	R	R	R	R	G	G	DW	DW	DW	DW		, . <del></del>
4 CHANGE	R	R	R	Ř	R	Y	Y	DW	DW	DW	DW		1
PHASE 4 ALT	R	R	R	R	R	G	G	DW	DW	WK	WK	•	
PED CLEARANCE	R	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW		
4 ALT CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	ĐW		1
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	4	<u></u>





## WIRING KEY

- A 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G )
- B 5-CONDUCTOR ELECTRICAL
- C) 3-CONDUCTOR ELECTRICAL D) CABLE (NO. 14 A.W.G)
- E 2-CONDUCTOR ELECTRICAL F CABLE (NO. 14 A.W.G)
- G STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EL-LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES-EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY PEPCO
- + GROUND ROD

STREET TRAFFIC STUDIES, LTD 400 Crain Hwy, N.W. Glen Burnie,MD 21061 Ph (410) 590-5500 Fax (410) 590-6637 T-61 DATE:

4238gi.dgn

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 212 (RIGGS ROAD) AND MD 211 (SARGENT ROAD)

DRAWN BY: CHECKED BY:	ROB CICCHINI R ZACHERL	F.A.P. NO. S.H.A. NO.	PGUSHARQ	TS NO. 1779-A	SHEET NO.
SCALE:	none	COUNTY:	PRINCE GEORGES	T.I.M.S. NO.	2 2
DATE:	8/23/02	LOG MILE:	16021101.12	F249	∠ <sub>OF</sub> ∠